FIG. 1

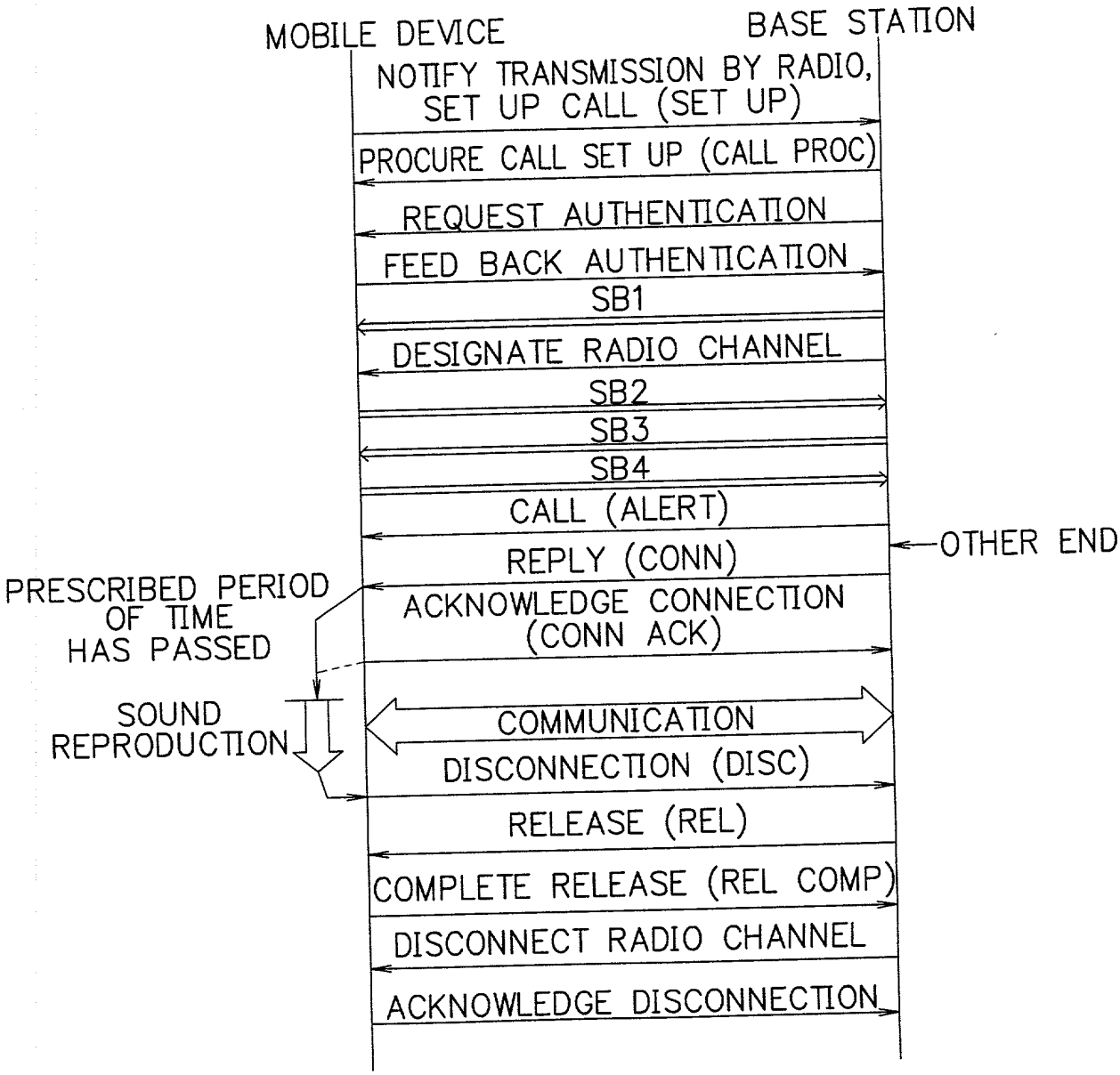
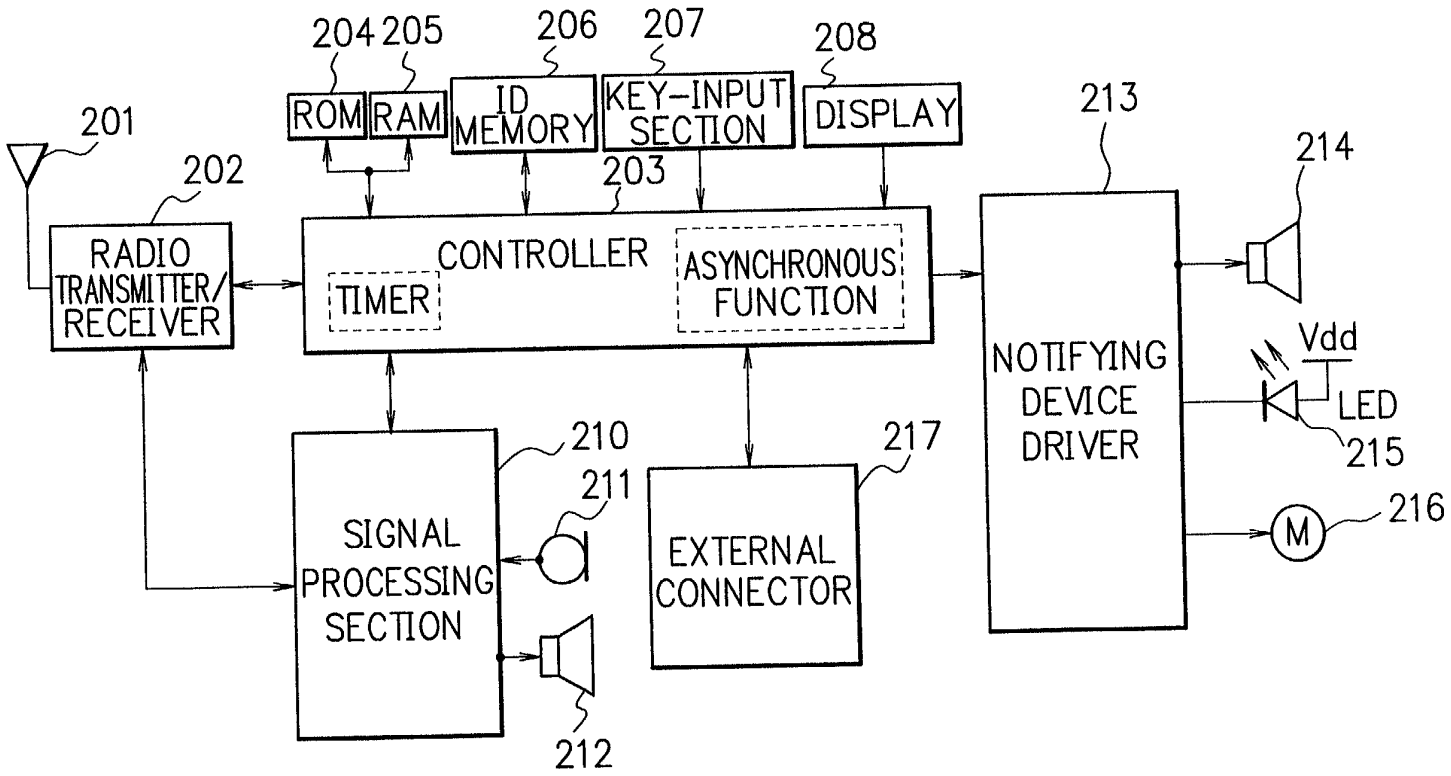

MOBILE DEVICE
BASE STATION
NOTIFY TRANSMISSION BY RADIO, SET UP CALL (SET UP)
PROCURE CALL SET UP (CALL PROC)
REQUEST AUTHENTICATION
FEED BACK AUTHENTICATION
SB1
DESIGNATE RADIO CHANNEL
SB2
SB3
SB4
CALL (ALERT)
REPLY (CONN)
OTHER END
PRESCRIBED PERIOD OF TIME HAS PASSED
ACKNOWLEDGE CONNECTION (CONN ACK)
SOUND REPRODUCTION
COMMUNICATION
DISCONNECTION (DISC)
RELEASE (REL)
COMPLETE RELEASE (REL COMP)
DISCONNECT RADIO CHANNEL
ACKNOWLEDGE DISCONNECTION

FIG. 2


201
202
204
205
206
207
208
ROM
RAM
ID MEMORY
KEY-INPUT SECTION
DISPLAY
203
213
214
RADIO TRANSMITTER/ RECEIVER
CONTROLLER
TIMER
ASYNCHRONOUS FUNCTION
NOTIFYING DEVICE DRIVER
Vdd
LED
215
210
211
217
216
M
SIGNAL PROCESSING SECTION
EXTERNAL CONNECTOR
212

JP2001-256660

FIG. 3

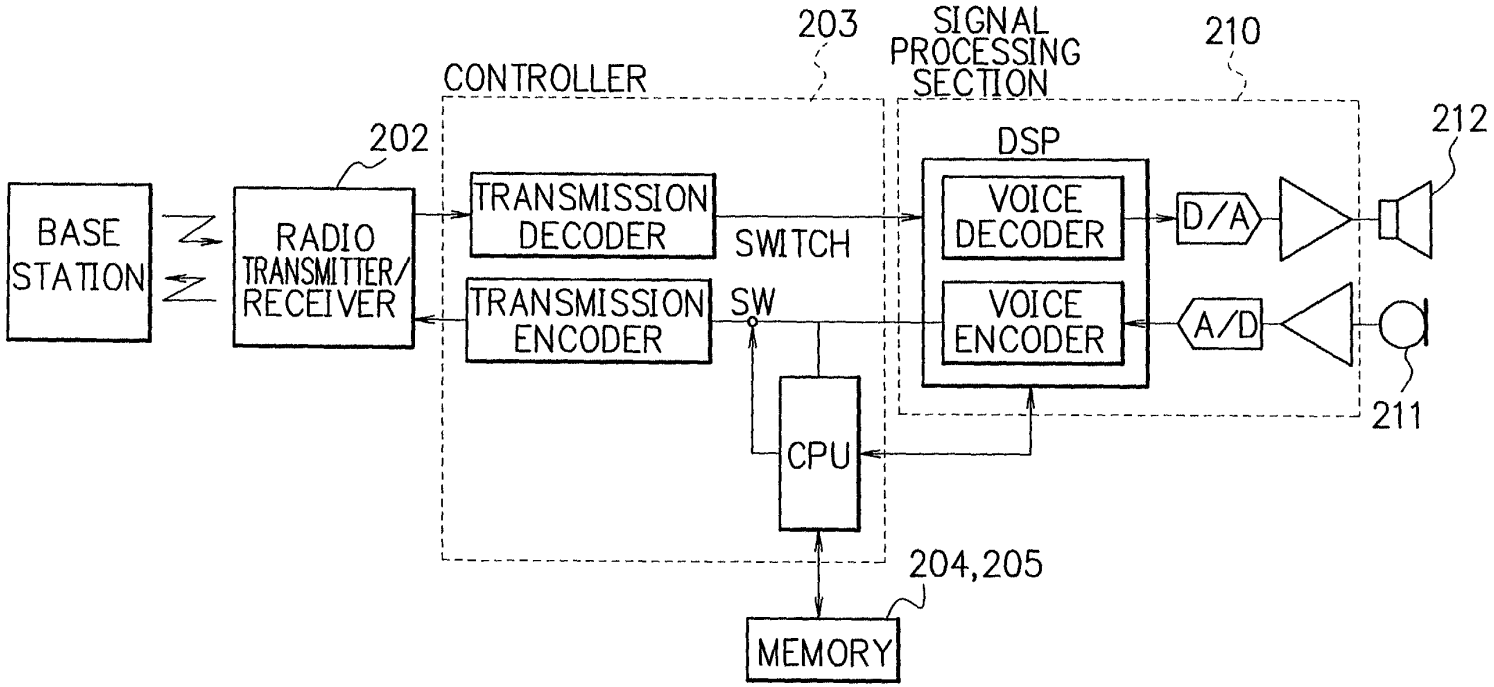


FIG. 4

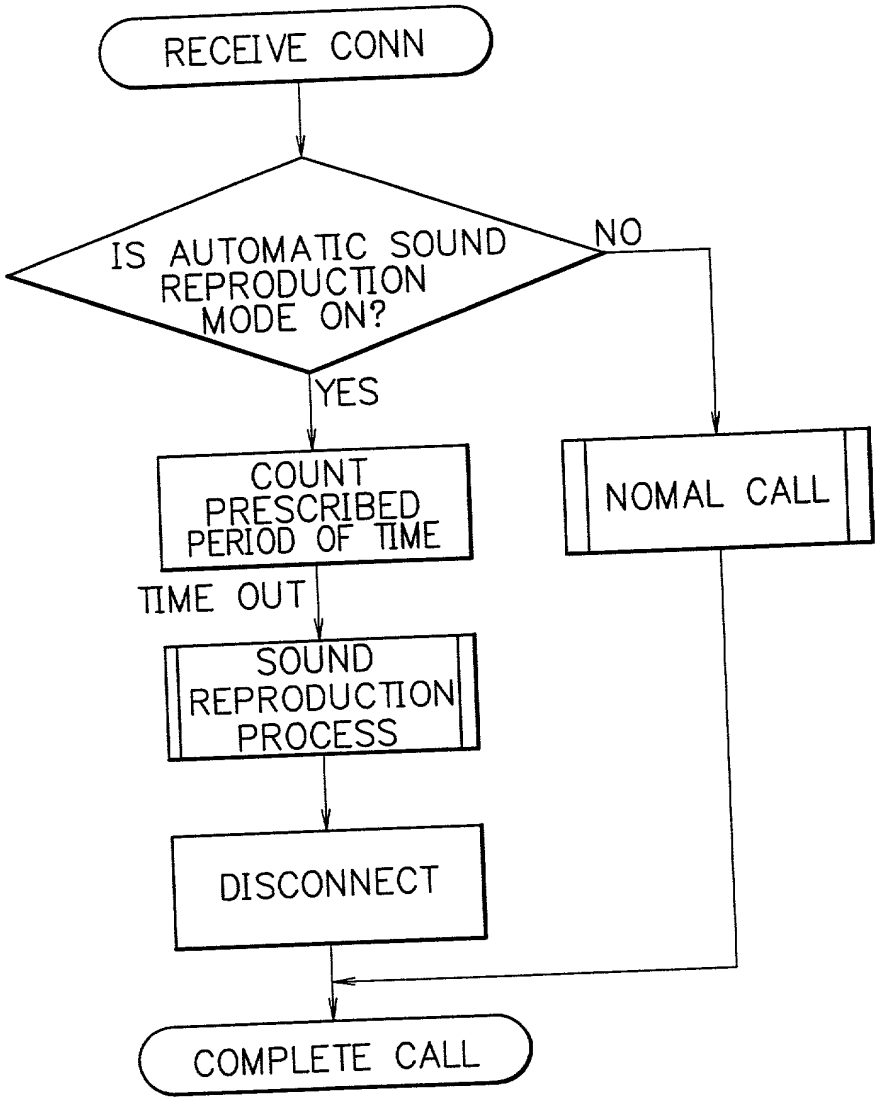
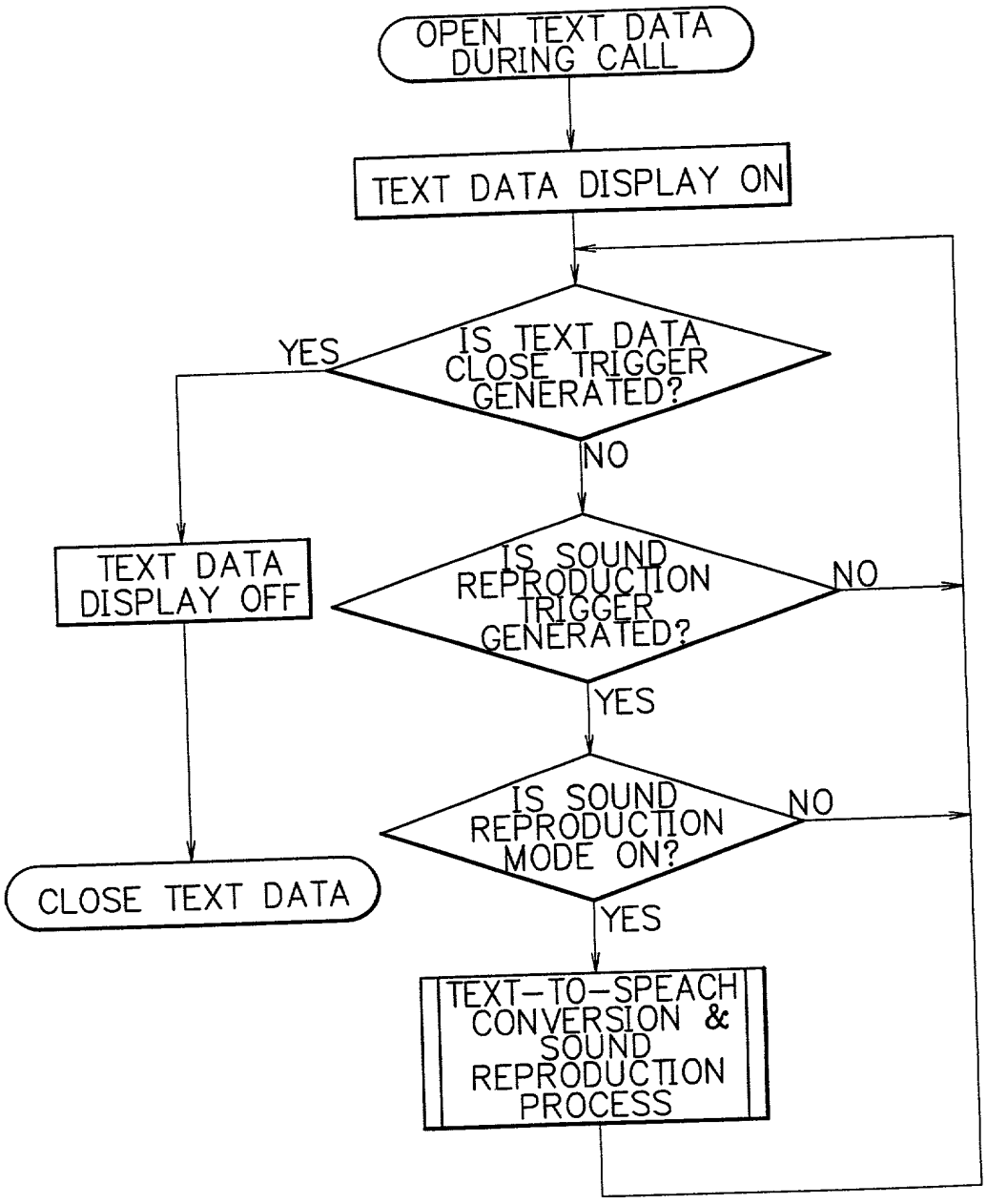

RECEIVE CONN
IS AUTOMATIC SOUND REPRODUCTION MODE ON?
NO
YES
COUNT PRESCRIBED PERIOD OF TIME
NOMAL CALL
TIME OUT
SOUND REPRODUCTION PROCESS
DISCONNECT
COMPLETE CALL

FIG. 5


OPEN TEXT DATA DURING CALL
TEXT DATA DISPLAY ON
IS TEXT DATA CLOSE TRIGGER GENERATED?
YES
NO
TEXT DATA DISPLAY OFF
IS SOUND REPRODUCTION TRIGGER GENERATED?
NO
YES
IS SOUND REPRODUCTION MODE ON?
NO
YES
CLOSE TEXT DATA
TEXT-TO-SPEACH CONVERSION & SOUND REPRODUCTION PROCESS